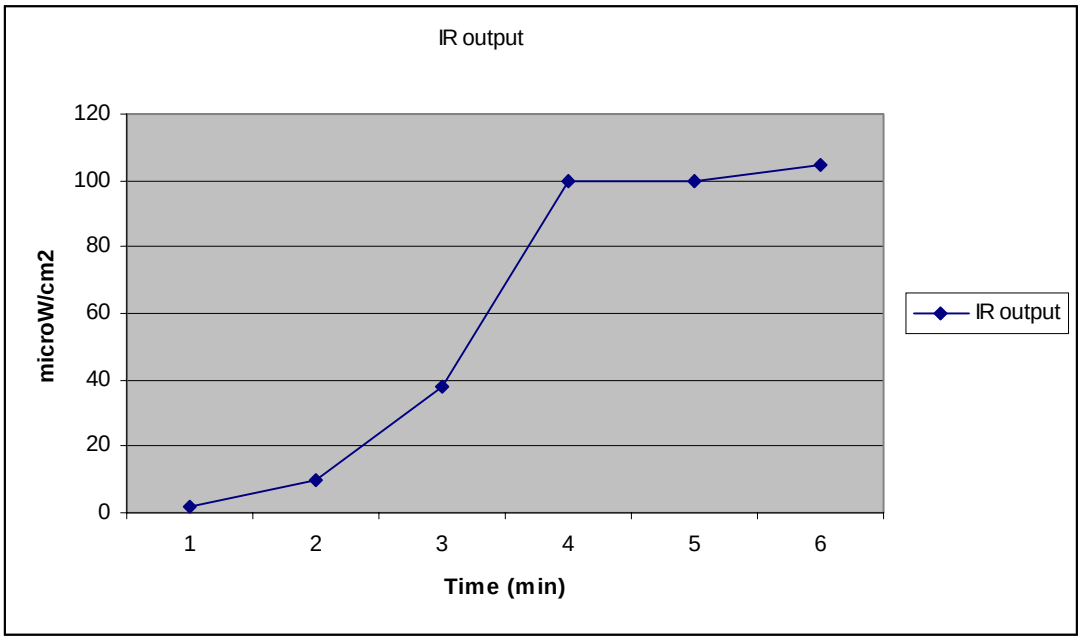
Cure Test UV Tack for Atlas Pixal Modules

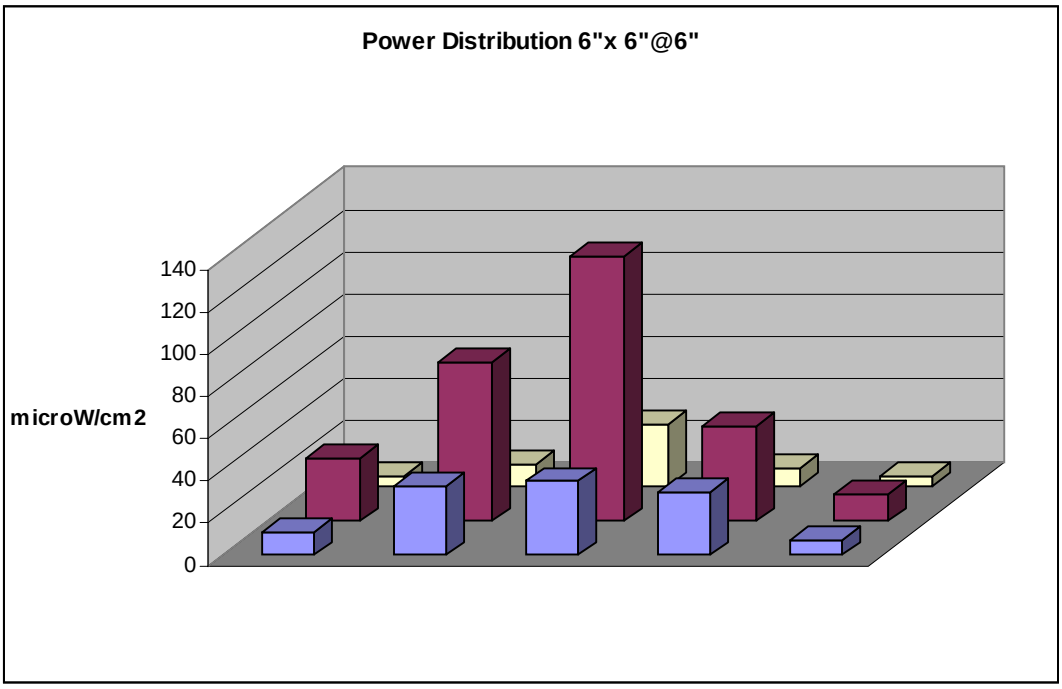
Adhesive is Norland Electronic adhesive (NEA 123 HGA). This is a low outgassing, one part, thixotropic adhesive that cures when exposed to UV light. Curing energy is about 6 joules / cm^2 of UV light with a wavelength of 320nm to 390nm.

The UV source was a BLACK-RAY long wave UV lamp, model B 100 AP

The measured warm up time is 5 minutes.



The power distribution for an area 6 inches by 6 inches and 6 inches from the face of the lamp is.



The sample configuration was two overlapping pieces of 0.002 inch thick Mylar with a 0.08 inch diameter dot at one edge of the overlap.

The cure was by moving the 3/4 inch long 100 micro watt spot along the row of dots at a rate of 1, 0.5 and 0.2 inches per minute.

The samples twenty for each cure time were puled to failure.

Results were

1"/min	0.86 pounds
0.5	1.35
0.2	1.27

Conclusion is that 3 minutes at 6 inches should give a full cure.